

CLAIMS

1. A catalyst for dimethyl carbonate synthesis,
which is used for producing dimethyl carbonate from
acetone dimethyl acetal and CO₂ in a supercritical state,
5 wherein the catalyst is obtained by loading a strong
acid on a carrier composed of a compound having a solid
state.

2. The catalyst for dimethyl carbonate synthesis
according to claim 1, wherein the strong acid contains one
10 or more compounds selected from SO₄²⁻ or PO₄³⁻.

3. The catalyst for dimethyl carbonate synthesis
according to claim 1, wherein the compound having a solid
acid site is one or more selected from ZrO₂, Al₂O₃, and
TiO₂.

15 4. The catalyst for dimethyl carbonate synthesis
according to claim 2, wherein the compound having a solid
acid site is one or more selected from ZrO₂, Al₂O₃, and
TiO₂.

5. The catalyst for dimethyl carbonate synthesis
20 according to claim 3, wherein the specific surface area of
the carrier composed of one or more selected from ZrO₂,
Al₂O₃, and TiO₂ is 40 to 200 m²/g.

6. The catalyst for dimethyl carbonate synthesis
according to claim 4, wherein the specific surface area of
25 the carrier composed of one or more selected from ZrO₂,

Al_2O_3 , and TiO_2 is 40 to 200 m^2/g .